

Page 1 of 1

All amounts are calculated in domestic currency.

[illegible]

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel.:** 450 641-3330

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Shipping Order

24/11/2016

Order : 120726
Reference : 34360
Bid : 20537
Ship : PICK UP / PICK UP

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
MR384130	4130 N .375 DIAM 1 x 12' HT:183052	12	12 ✓	0
DT12083	4130n TUB .500" X .083" WALL 1 X 24' HT:A161705	24	24 ✓	0
TP12A2	A-2 PLATE TFA 1/2" THICK 2 x 1.25" x 105" r/l -0+0 HT:PM56679	42	42 ✓	0

SHIP JOURNEY COLLECT
JP

2016-11-28

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO34360

Purchase Order Date 11/17/2016

PO Print Date 11/17/2016

Page Number 1 of 2

Order From :

VC-MET002

METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

NOV 17 2016

Contact Name

Vendor Phone 800 558 8858

Ship To Contact

Ship To Phone

Ship Via: Journey Freight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M4130NR0.375	4130 steel RD bar .375"	11/28/2016 Yes 11/28/2016		12.00 f	\$14.90	\$178.80
MATERIAL: AS PER AISI 4130N ROUND BAR PER MIL-S-6758 OR AMS 6348/6370/6528							
Line Total:							\$178.80
2	M4130NT0.500W.083	4130 RD tube .500 x .083W	11/28/2016 Yes 11/28/2016		20.00 f	\$17.25	\$345.00
MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374							
Line Total:							\$345.00

Note:

11/17/2016



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34360**

Purchase Order Date 11/17/2016

PO Print Date 11/17/2016

Page Number 2 of 2

Order From :
METAUX SOLUTIONS
2625 BOUL JACQUES-CARTIER EST
LONGUEUIL, QC J4N 1L7
CA

VC-MET002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 558 8858

Ship To Contact

Ship To Phone

Ship Via: Journey Freight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

3	MSTEEL-A2-B0.500X1.250	AISI A2 TOOL STEEL BAR, 0.500 X 1.250	11/28/2016	24.00		\$12.38	\$297.00
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Yes

11/28/2016

MATERIAL: AISI A2 TOOL STEEL, ANNELED CONDITION
AS PER A681 .

TOLERANCE -0+0" AS PER QUOTATION #16619
CUT AT 1.25"

recu 16.20

Line Total: \$297.00

4	71401-45	PROCUREMENT QUALITY CLAUSES	11/28/2016	1.00		\$0.00	\$0.00
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No

11/28/2016

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Sp/16-11-28

Line Total: \$0.00

PO Total: \$820.80

W
CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 11/17/2016

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7
Canada

18 Novembre 2016

DAS
14
9-89

16/12/02

Description: 4130 CF NORM AQ BAR

AMS 6348

Line Total: 12 LB

3/8 RD X 12' R/D

HEAT: 183052

ITEM: 507780

Specifications:

MIL S 6758 B

AMS 6370 N

ASTM A304 11

ASTM A29/A29M 12E1

EN 10204 3.1 04

ASTM E10 15

ASTM E381 06

AMS 2301 K

AMS S 6758 A

ASTM A322 13

ASTM A331 95 00

ASTM A255 10

ASTM E384 99

ASTM E709 14

AMS 6348 C

ASTM A108 13

ASTM A751 14

MIC 2016 12

ASTM E45 METHOD A 13

ASTM E112 13

CHEMICAL ANALYSIS

C	MN	SI	P	S	CR	NI	MO
0.29	0.46	0.25	0.012	0.003	0.85	0.13	0.16

CU	AL
0.16	0.004

RCPT: R877203

COUNTRY OF ORIGIN : SPAIN

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
					219

Description: 4130 CF NORM AQ BAR AMS 6348
3/8 RD X 12' R/L Line Total: 12 LB

HEAT: 183052 ITEM: 507780

END-QUENCH HARDENABILITY (JOMINY - RC)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
51	51	50	49	48	45	43	41	38	37	34	33	33	32	31
16	18	20	22	24	26	28	30	32						
31	31	31	31	30	30	29	28	26						

GRAIN SIZE :7 -

CLEANLINESS

	A		B		C		D	
	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX	THIN MAX	THICK MAX
e45	0.5	0.0	1.0	0.0	0.0	0.0	0.5	0.0

STRAND CAST REDUCTION RATIO 305.89999 TO 1 VACUUM DEGASSED
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
DECARB: OK
MACRO: OK
MICRO1: OK
AMS NO :0000
SEVERITY :0.1
FREQUENCY:0.1

ITEM: 1X 12'

REF: 34360

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date
23-NOV-2016

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

41348-J

Invoice Number
T360205

PART NUMBER/NUMÉRO DE PIÈCE

140811

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;
.500 OD X .083 W (.334 ID) X 17/24' R/L Line Total: 22.2161 FT
HEAT: A161705 ITEM: 140811

Specifications:

AMS T 6736 B
FAR 52.225-1
ASTM A450
ASTM E1444
ORSEC 3.2 AS

MIL T 6736 B
DFARS 252.225-7001
ASTM E112
AMS 2301
APPLICABLE

AMS 6360 M
FAR 52.225-5
AMS 2640 J
EN10204 SEC 3.1 04

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.31	0.52	0.005	0.003	0.23	0.12	0.16	1.05
MO	V	TI	AL	SN	14		
0.23	0.002	0.001	0.027	0.007	9-89		

16/12/02

RCPT: R951019

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS RC
	99100.0	112200.0	19.0		27
	97700.0	111200.0	15.0		26
	98267.0	111700.0	17.0		27

GRAIN SIZE : 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
23-NOV-2016

41348-J
PART NUMBER/NUMÉRO DE PIÈCE
140811

Invoice Number
T360205

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4130 CDS TUBING AMS T 6736 COND N;
500 OD X .083 W (.334 ID) X 17/24' R/L Line Total: 22.2161 FT
HEAT: A161705 ITEM: 140811

EDDY CURRENT: YES

DECARB: OK

AMS NO : 2301

SEVERITY : 0.0

FREQUENCY: 0.0

DAS
14
9-89

COMMENTS

melt source steel dynamics = usa melt/mfg

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

24 Novembre 2016

Product Description

A2-05000

1/2 X 32 13/16" X 138 1/16" A2 PLATE

Shipped Pcs
 1.00

Shipped Lbs
 674.00

Back Ordered
 0.00

ASTM A-681-08

PLATE#: 411882A

Country of Origin CHINA

PM HEAT#: 58679

BHN 207.00

C - 1.0200 Mn - 0.5100
 Cr - 4.9900 Mo - 0.9800

P - 0.0200 S - 0.0020
 V - 0.1700

Si - 0.1900

DAS
 14
 9-89

16/12/02

ITEMS: A2 PLATE TFA 2 X 1.25" X 105 3/4"

REF: CHANTAL

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4130 NRO.375
 DATE: 11/12/02

PO / BATCH NO.: 34360/136243

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>4130</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>.375</u>
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>AMS 6348</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>HEAT # 183052</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M4130 NRO.375</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M136243</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> DATE: <u>11/12/02</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M413D NTO.500W.083

PO / BATCH NO.: 34360/136243

DATE: 11/12/02

MATERIAL CERT REC'D: yes

THICKNESS ORDERED: .083

QUANTITY RECEIVED: 24'

THICKNESS RECEIVED: .077

QUANTITY INSPECTED: 24'

SHEET SIZE ORDERED: _____

QUANTITY REJECTED: _____

SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	4130
CORRECT THICKNESS	(Y) N	.077
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	MIL T6736
CORRECT REF # TO LINK CERT	(Y) N	HEAT # A161705
CORRECT MATERIAL IDENTIFICATION	(Y) N	M413D NTO.500W.083
CORRECT M# ON THE MATERIAL	(Y) N	M136243
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: DAS
14
9-89

SIGNED OFF BY: _____

DATE: 11/12/02

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MSTEEL-A2B0.500X1.250 / BATCH NO.: 34360/136243
 DATE: 16/12/02

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 17.5'
 QUANTITY INSPECTED: 17.5'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .500
 THICKNESS RECEIVED: .530
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> N	MSTEEL-A2
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	.530
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> N	ASTM A 281
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	HEAT # PM57679
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	MSTEEL-A2-B0.500X1.250
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	M136243
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>9-90</u> DATE: <u>16/12/02</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in